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1912/13

Catalogue  
OF  
Columbia University  
Portland, Oregon  
FOR  
1912-1913

UNIVERSITY OF ILLINOIS

APR 24 1914

PRESIDENT'S OFFICE

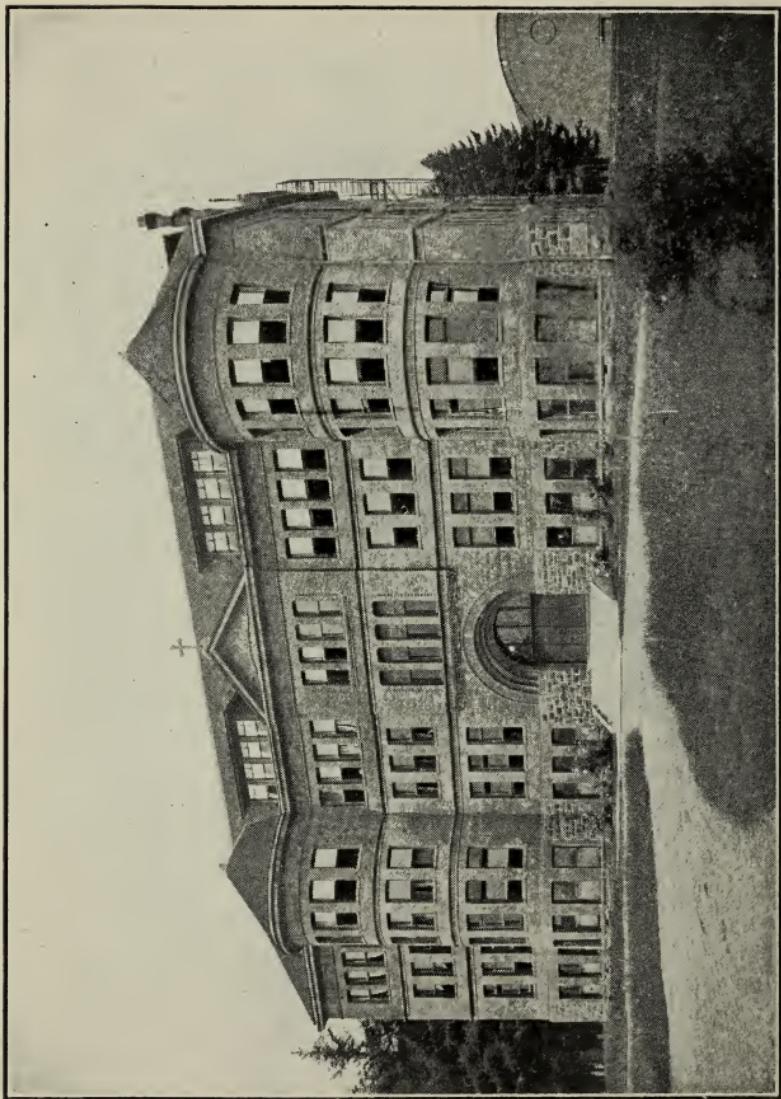


UNIVERSITY OF ILLINOIS

With Announcements for 1913-1914







ADMINISTRATION BUILDING

# COLUMBIA UNIVERSITY

## PORLAND, OREGON

CATALOGUE FOR 1912-13 ANNOUNCEMENTS FOR 1913-14

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## **DIRECTORY OF THE UNIVERSITY**

The **FACULTY**—Address:

**COLUMBIA UNIVERSITY,**

**UNIVERSITY PARK STATION,**

**PORLAND, OREGON.**

The **STUDENTS**—Address:

As for the Faculty.

Long distance telephone messages reach the University direct through the service of the Pacific Telephone and Telegraph Company. All mail matter, telegrams and express packages should be directed to the address given above.

The University is on the Willamette River, three miles down stream from Portland. The Oregon-Washington Railroad and Navigation Company, the Southern Pacific, the Astoria and Columbia River Railroad, the Northern Pacific, the Canadian Pacific, the Spokane, Portland and Seattle Railroad (the North Bank Road), and the Oregon Electric run directly into the city.

The Portland and San Francisco Steamship Company, the California and Oregon Coast SS. Company, and the North Pacific Steamship Company have terminal wharves in Portland.

The St. Johns car line of the Portland Street Railway Company runs directly to the University. The stop for the University is called University Park.

## **CALENDAR**

**1913**

- SEPTEMBER    9. Entrance Examinations and Registration.  
                  10. Classes begin.  
                  26. Reading of University Regulations.
- OCTOBER        12. Columbus Day.  
                  15. President's Day.  
                  29. Annual Retreat begins in the evening.
- NOVEMBER      1. All Saints' Day.  
                  12. Mass for deceased students.  
                  13-14. Examinations.  
                  27. Thanksgiving Day.
- DECEMBER      8. Feast of the Immaculate Conception.  
                  22. Christmas Vacation begins.

**1914.**

- JANUARY       5. Classes resumed.  
                  29-30. Examinations.
- FEBRUARY      2. Second Semester begins.  
                  22. Washington's Birthday.
- MARCH          17. St. Patrick's Day.  
                  19. St. Joseph's Day.
- APRIL           7-8. Examinations.  
                  9. Easter Vacation begins.  
                  13. Easter Vacation ends.
- MAY             6. Founders' Day.  
                  21. Ascension Day.  
                  30. Decoration Day.
- JUNE            8-9. Examinations.  
                  10. Graduation Exercises.

**EXECUTIVE OFFICERS OF THE UNIVERSITY**

**Rev. JOSEPH J. GALLAGHER, C. S. C.**  
**PRESIDENT.**

**Rev. HUGH S. GALLAGHER, C. S. C.**  
**VICE-PRESIDENT.**

**Rev. GEORGE J. MARR, C. S. C.**  
**DIRECTOR OF STUDIES.**

**Rev. JAMES H. GALLAGAN, C. S. C.**  
**PREFECT OF RELIGION.**

**FACULTY**

Rev. JOSEPH J. GALLAGHER, C. S. C.  
PRESIDENT.

Rev. JAMES S. READY, C. S. C.  
MATHEMATICS.

Rev. HUGH S. GALLAGHER, C. S. C.  
LATIN AND GREEK.

Rev. GEORGE J. MARR, C. S. C.  
HISTORY AND FRENCH.

Rev. LEO J. HEISER, C. S. C.  
CHEMISTRY AND BIOLOGY.

Rev. DAVID P. O'LEARY, C. S. C.  
COMMERCIAL LAW.

Rev. JAMES H. GALLAGAN, C. S. C.  
AMERICAN HISTORY AND CIVIL GOVERNMENT.

Rev. JOHN C. McGINN, C. S. C.  
LATIN AND ENGLISH.

Rev. DOMINIC K. O'MALLEY, C. S. C.  
CHRISTIAN DOCTRINE.

Rev. WILLIAM F. CUNNINGHAM, C. S. C.  
PHILOSOPHY AND ENGLISH.

Rev. DOMINIC J. CANNON, C. S. C.  
PHYSICS.

Bro. NORBERT, C. S. C.  
MODERN LANGUAGES.

Mr. JAMES H. BACH, C. E.  
DRAWING.

Mr. DOMINIC L. CALLICRATE, C. E.  
MATHEMATICS.

Mr. W. ELBERT CARRICO  
BOOKKEEPING.

Mr. CLARENCE DAVIES  
MUSIC.

Mr. D. O. WEBSTER, M. D.  
ATTENDING PHYSICIAN.

**DIRECTORS OF HALLS**

**ADMINISTRATION HALL**

Rev. DOMINIC K. O'MALLEY, C. S. C.

Rev. JAMES S. READY, C. S. C.

**CHRISTIE HALL**

Rev. JAMES H. GALLAGAN, C. S. C.

Rev. WILLIAM F. CUNNINGHAM, C. S. C.

Rev. DOMINIC J. CANNON, C. S. C.



# COLUMBIA UNIVERSITY

Columbia University was founded in the year 1901 by the Most Reverend Alexander A. Christie, D. D., the present Archbishop of the See of Oregon City. The institution is conducted by the Congregation of the Holy Cross, a religious body of men devoted to the higher education and Christian training of young men. Since the close of the first scholastic year the school has been conducted by this eminent teaching body.

The University is beautifully and healthfully placed on a location ideal in its surroundings for the pursuit of study and the development of strong, manly character. The eastern bank of the Willamette River in northern Portland rises abruptly to a height of one hundred and eighty feet, and from this elevation the University grounds and buildings afford a magnificent outlook on an inspiring stretch of scenery, unsurpassed in grandeur anywhere. One sweep of the vision takes in the quiet freshness of the Coast Range, the solemn, rugged features of the Cascades, five snow-capped mountain peaks, the gleaming flood of the majestic Willamette—all of which form a gorgeous panoramic setting for the city of Portland.

The mild climate of Western Oregon particularly commends the location of the University. Throughout the entire year the temperature varies little. Excessive cold or heat is comparatively unknown. Portland's death rate has been reputed the lowest of any in the country. In the history of the University there has not been a single case of serious illness. Extensive grounds afford ample opportunity for physical exercise and outdoor sports so necessary to the developing student.

## UNIVERSITY BUILDINGS THE ADMINISTRATION BUILDING

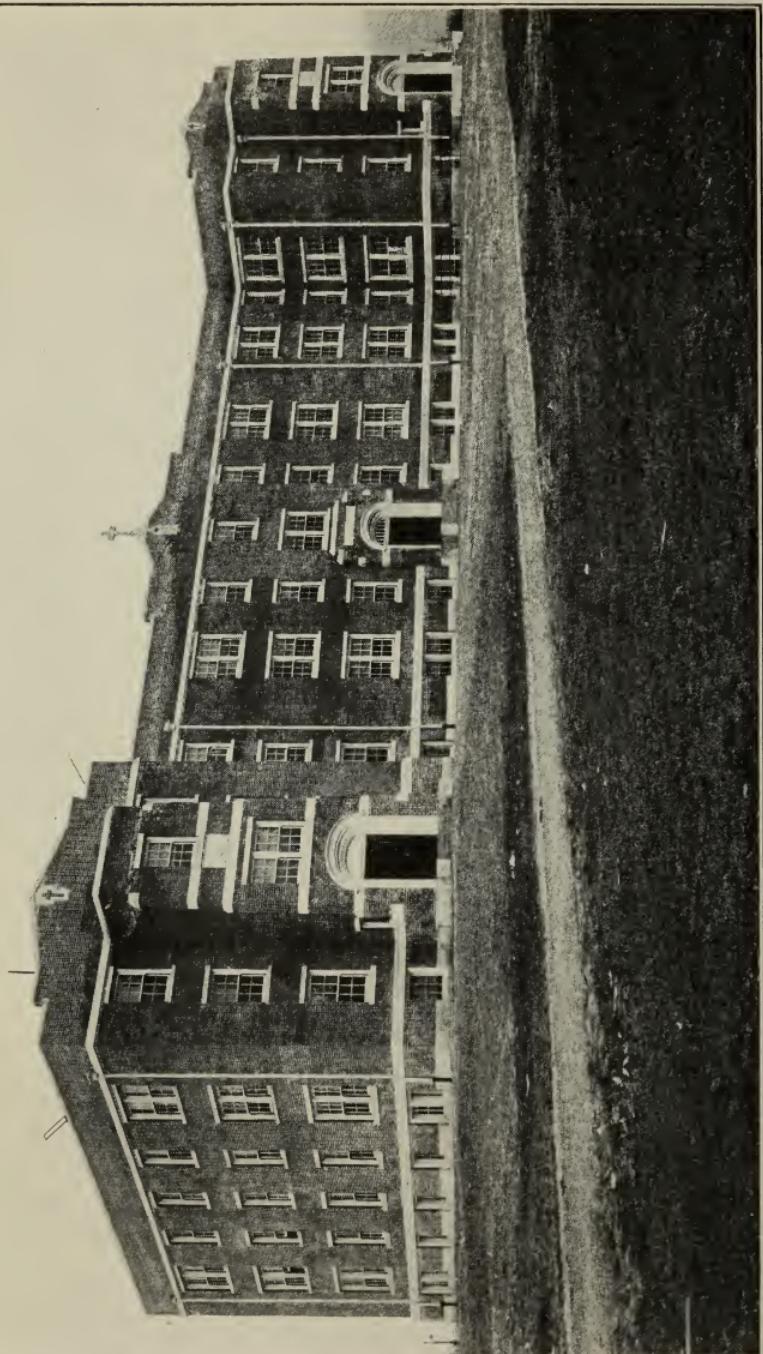
The principal structure on the University grounds fronts Portland and overlooks the main channel of the Willamette River. It is a brick building, five stories in height, and is built in a strong, beautiful style of architecture. The scientific museum is temporarily located here. It also contains the executive offices, private rooms for members of the faculty, elementary chemical laboratories, class rooms, dining rooms and dormitories for the students. This building is lighted by electricity and gas and heated by steam.

## THE LIBRARY

The Library is well adapted to the literary and scientific work of the students, and though sufficiently large and comprehensive at present, is constantly being added to as progress is made in the various departments. The departments of Literary Criticism, History, Political Science and Technical Subjects are well represented. There is also a separate department under special management for the use of the younger students. Ample reading room is provided where certain rules conduce to make pleasant and profitable the time spent in reading or research. The best literary magazines and reviews, as well as the current numbers of scientific and technical journals, are kept on file. Students have access to the Library at certain hours from 8:00 a. m. to 9:00 p. m.



CHRISTIE HALL, NEW DORMITORY



### CHRISTIE HALL

Christie Hall, a model school dormitory, is located northeast of the Administration Building and faces the campus. It is a beautiful four-story brick building, one hundred and eighty-six feet long and seventy feet wide, built in the Tudor style of architecture. The main part of this hall is devoted exclusively to one hundred and twenty-two private rooms for students. In the way of comfort, convenience and sanitary appointments, it embodies the last word in the school builder's art. All the rooms have a fine outlook. They are well lighted and ventilated; for artificial light, electricity and gas are used. It is heated by steam. Each room is equipped with a sanitary wash bowl with hot and cold water attachments. A few rooms are equipped with private bath and toilet. A vacuum cleaning system throughout the hall reduces to a minimum the spread of dust. Each floor is furnished with baths and lavatories.

Christie Hall also contains the college chapel and is the temporary location of the library. The lower floor is devoted to bowling alleys, a billiard room and smoking room and a large assembly hall. The interior finish is Oregon fir; the exterior is red brick with white trimmings. Rates for rooms in this hall vary according to size and location of room. (See Page 19.)

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### THE SCIENTIFIC DEPARTMENT

is located in the north wing of the Administration Building. The departments of Physics, Philosophy, Botany and Biology have recitation rooms and laboratories in this section. The extensive equipment for each of these departments is constantly being augmented.

### THE CHEMICAL LABORATORIES

occupy a large section of the fifth floor of the main building. Here are the general inorganic, organic and elementary chemical laboratories. Each laboratory is provided with ample hood accommodations, and each desk is furnished with water, gas and suction.

### THE INFIRMARY

This department of the University is devoted to the care of sick students. It consists of rooms for the use of students during illness. They are cared for by the Sisters of the Presentation. When necessary the University physician is in daily attendance.

### THE GYMNASIUM

adjoins the campus used for outdoor sports. The track-hall is 190 feet long by 120 feet wide. It is kept in excellent condition and is used for indoor track meets, winter baseball practice, basketball, tennis and all manner of running, jumping, pole-vaulting and weight-throwing. The arched roof does away with supporting pillars and affords a free, unobstructed ground room convertible into an immense playground during the rainy season. It holds out to all a convenience for athletics not ordinarily accorded students in any other educational institution west of the Rockies.

The outdoor campus consists of five acres of ground north of the Gymnasium. Here are laid out the baseball diamonds, the football gridiron and tennis courts, all of which afford general opportunities for outdoor exercise in agreeable weather. A six-lap track encircles the plot and every convenience is at hand for the successful direction of all outdoor sports. The total stretch of University campus open to the use of the students covers more than twenty-five acres.

#### SYSTEM OF INSTRUCTION

The entire plan of studies is based on the modified elective system. The student is free to select his own curriculum conformably to his natural liking, the career in life he may have in view, or the determinate intellectual bent developed during his secondary school years; but though he is free to elect his own studies, he has not, however, unlimited freedom in this respect. The principle of general election is modified. Lest the young Freshman in his inexperience choose unwisely, he is aided in making his choice of studies by being permitted to select from a number of parallel programs leading to baccalaureate degrees. Three programs are open for his choice in the Colleges, each embracing courses which, in the opinion of the Faculty, contribute best to cultural or professional knowledge. These programs are, in some cases, made elastic by the introduction of elective courses, especially in the Junior and Senior years. Students who wish to spend a limited time in study and cannot complete all the courses in a program for a degree, may register as special students and elect any courses for which their preparation has fitted them.

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The hours scheduled in the different programs are credit hours based on the average amount of time required for attendance at recitations and the time necessary for preparation of recitations. One hour of recitation is regarded as the equivalent of two hours of laboratory work. The minimum number of credit hours which a student must carry is sixteen, the maximum number which he may carry is twenty. Students who wish to take more work than is indicated by the maximum requirements must apply by formal petition to the Faculty for the requisite permission.

#### **REGULATIONS GOVERNING ADMISSION TO THE COLLEGIATE COURSES**

Candidates who wish to enter any of the Collegiate Courses must present evidence, either by examination or by a properly attested certificate, of ability to enter on the courses of the Freshman year. The specific subjects required for entrance will be found later in this catalogue.

Examinations in all the subjects required for admission to Columbia University are held at the University in September, at the beginning of the Fall Semester, and in February at the beginning of the Spring Semester.

A candidate failing to pass satisfactory examinations in one or more of the subjects required for admission to any college program may, at the discretion of the Faculty, be admitted to his class, conditioned to make up his deficiency by extra study *within one school year*. Only when the conditions are removed will the student be admitted to full standing in his class.

## BACHELORS' DEGREES

The courses of study offered to candidates for the degree of Bachelor extend by fixed programs through four scholastic years. In the College of Letters and Arts one of three degrees is conferred on an undergraduate—Bachelor of Arts (A. B.), Bachelor of Letters (Litt. B.), Bachelor of Philosophy (Ph. B.)—dependent on the special program of studies the candidate selects.

In the College of Music one degree is offered, Bachelor of Music (B. M.). The candidate must have a thorough theoretical knowledge of four instruments mentioned in the courses described later, and a practical mastery of one of them. He shall pass a written examination in harmony, counterpoint and composition, and he must submit to the examiner two original compositions: (a) A fugue for full orchestra, or for four voices with independent orchestral accompaniment; (b) a composition in the free form (sonata or rondo) for pianoforte, or a trio (pianoforte, violin and violincello).

The degree of Bachelor will not be conferred unless the candidate shall have been in residence for one complete scholastic year in his *Senior* year of study.

Catholic students are required to take the Christian Doctrine courses.

## SPECIAL STUDENTS

Students who do not wish to become candidates for a degree by following the prescribed courses of any program may register as special students and attend any of the courses of instruction for which their previous academic training has fitted them. Such special students are governed by the same regulations and discipline as the other undergraduates. They are required to pass the same examinations in the courses they pursue as the other students.

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In exceptional cases men of mature age, who have been out of school or college for several years, but whose training in practical affairs has been sufficiently educative, will be accepted as special students by satisfying the Faculty of their ability to pursue with profit any course of instruction.

On leaving the University special students may receive on application certificates stating their proficiency in the courses they have pursued.

#### DISCIPLINE

Official reports of each student's class standing will be sent to parents and guardians every two months.

The Faculty maintain that an education which gives little attention to the development of the moral part of a youth's character is pernicious, and that it is impossible to bring about this development where students are granted absolute relaxation from all Faculty government while outside the class-room. A young man must learn obedience to law by the actual practice of obedience, not merely by appeals to honor.

Moreover, the quiet and concentration of mind that are needed for college work are not obtained except where discipline exists.

Therefore the following regulations, shown by experience to be salutary, are enforced at the University:

1. No student shall leave the University grounds without permission from the President or the person delegated to represent him. Day scholars are subject to a modification of this rule.

2. Leave of absence will not be granted to students during the term time, except in cases of urgent necessity.

3. Students are required to report at the University immediately after arriving at Portland. This rule is bind-

ing not only at the beginning of the scholastic year, but at all other times when leave of absence has been granted. Unnecessary delay in Portland is looked upon as a serious violation of rule.

4. Flagrant disobedience to authority, cheating in examinations, the use of intoxicating liquors, immorality, the use of profane and obscene language, and an unauthorized absence from the University limits are among the causes for expulsion. In case of suspension or expulsion for such offences, no fees shall be returned.

5. No branch of study shall be taken up or discontinued without the consent of the Director of Studies.

6. The use of tobacco is forbidden except to such students as have received from their parents written permission to use tobacco.

7. Continued violation of regulations leads to forfeiture of rooms.

8. Although students of all religious denominations are received, the University is nevertheless a strictly Catholic institution, and all students are required to attend divine service in the University Chapel at stated times.

9. Undue attention to athletics at the expense of study will not be permitted; but students are expected to take part in outdoor sports.

10. A limited number of athletic contests is permitted with college organizations from without.

11. All athletic associations of the students are strictly forbidden to countenance anything that savors of professionalism.

12. All athletics are governed by a Faculty Board of Control which acts conjointly with the Executive Committee of the Student Body Association. This committee will determine the amateur standing of the members of the athletic teams and apportion the finances. By this means indiscreet and unconsidered action of the students will be checked.

**ORDINARY EXPENSES**

<i>Matriculation Fee (payable on first entrance).....</i>	\$ 10.00
<i>BOARD, TUITION, Lodging, Washing and Mend-</i>	
<i>ing of Linens, for entire school year.....</i>	300.00
<i>Tuition and Dinner.....</i>	135.00
<i>Tuition only (Day Scholars in Collegiate and High</i>	
<i>School Grades) .....</i>	75.00
<i>Tuition only (Day Scholars in Grammar Grades)..</i>	60.00

**PAYABLE IN ADVANCE, AS FOLLOWS:***On Entrance in September:*

<i>Matriculation Fee (payable first year only).....</i>	\$ 10.00
<i>First Payment on Board and Tuition.....</i>	200.00
<i>Deposit on Book and Stationery Account.....</i>	10.00
<i>Special Lecture and Library Fee.....</i>	4.00

*Also, in this First Payment must be included any extra Expense the student may wish to incur, such as charges for Private Room, Special Courses (listed below).*

*On January 15:*

*Balance on Board and Tuition.....\$100.00  
and any extra expenses the student may have incurred.*

No rebate will be allowed for time absent at the opening of the Terms, September and January. The charge of \$300.00 covers the tuition fee, which is fixed at \$75.00 per Scholastic Year. The latter sum is accepted as an entirety for tuition during the Scholastic Year, and will not be refunded in whole or in part, unless it becomes expedient for a student to go to his home because of severe or protracted illness. *Degrees will not be conferred on any student whose account with the University has not been settled.*

**SPECIAL EXPENSES—PAYABLE IN ADVANCE:***For Entire School Year.**Private Rooms (according to location) . . . . . \$90.00 up*

While the students, as a rule, are advised to confine themselves to the regular courses of the programs they have entered, any of the following may be taken at the rate mentioned per Scholastic year. The charges will be *pro rata* for any portion of the year:

*Instrumental Music—Lessons on Piano and use of**Instrument . . . . . \$60.00**Use of Piano for Advanced Students . . . . . 30.00**Typewriting—Full Course (20 lessons) . . . . . 5.00**Use of typewriter . . . . . 10.00**Lessons on Violin, Guitar, Flute, Cornet, Clarinet**or Mandolin . . . . . 50.00**Use of each Instrument . . . . . 5.00**Vocal Culture . . . . . 40.00**Elocution—Special Course . . . . . 10.00**Use of Library . . . . . 2.00**"Columbiad"—College Paper . . . . . 1.00**Laboratory fees listed later in this catalogue. (Page 53.)***GRADUATING FEE**

For all Courses leading to a Degree, \$10.00; Academic Courses, \$5.00; Commercial Course, \$5.00.

**REMARKS**

The Entrance Fees, cost of Books, Music and Laboratory Fees, etc., are required with first payment.

Remittance should be made by draft, postoffice money order or express, payable to the order of the President.

Checks on local banks are not desirable, and exchange will be charged in all cases.

Term bills and other accounts are subject to sight draft if not paid within ten days after they have been rendered.

The University is closed during the months of July and August.

**COLLEGE  
OF ARTS AND LETTERS**

**DEPARTMENT OF CLASSICS**

**DEPARTMENT OF LETTERS**

**DEPARTMENT OF HISTORY AND ECONOMICS**

### THE COLLEGE OF ARTS AND LETTERS

The College of Arts and Letters includes courses of study leading to the degrees of Bachelor of Arts, Bachelor of Letters and Bachelor of Philosophy. The two latter courses are modifications of the one leading to the degree of Bachelor of Arts, which until recent years was known as the Program of Classics and embraced studies in the ancient and modern languages, in English literature, in history, the natural sciences and in mathematics.

The demand of students for greater freedom of election in courses led to the formation of other programs which lead to degrees equivalent to the degree of Bachelor of Arts. In the matter of election of courses the student is permitted greater freedom in the program leading to the degree of Bachelor of Letters than in either of the other groups. The degrees now under charge of the College of Arts and Letters are the ordinary degrees of Bachelor of Arts, Bachelor of Letters, Bachelor of Philosophy and Master of Arts.

The location of the University offers special advantages for study. It is situated four miles from the noisy bustle of city life, on a beautiful tract where cultivation has aided nature. This removal from the distractions of the town gives the students opportunity to pursue their work with the quiet and concentration needed for earnest study. The Faculty live on the grounds of the University, dine with the students, and are accessible to them at any time. The benefits derived from this constant association with professors cannot be overestimated.

Facilities for work are found in the libraries and laboratories. The library has a complete collection of bound

volumes well selected. The leading literary and scientific reviews are kept on file. Books may be borrowed under easy regulations. The library contains ample reading-room space and is well lighted so that students may use it at night. It is open every day from 8 o'clock a. m. to 9:00 p. m. There are also special collections of books in the various departments of the College, mainly works of reference. Under certain conditions the city library of Portland is open to use by students of the University.

### ENTRANCE REQUIREMENTS

ENGLISH. Part of the examination time is given for answering questions upon books required to be read in the preparatory courses in English; the remainder, for writing an essay.

LATIN. Grammar, complete; *Caesar*, four books of the Gallic War; *Cicero*, four orations against Catiline; *Vergil*, *Aeneid*, six books; translation at sight of passages from *Cicero* and *Caesar*; translation of English into Latin based on the text of the authors.

GREEK. (*For Students in the Department of Classics only*) Grammar, etymology, and general rules of syntax; *Xenophon*, *Anabasis*, four books; *Homer*, at least three books; prose composition based on text.

HISTORY. A general knowledge of the outlines of Greek and Roman History and of Medieval and Modern History, as set out in the texts used in high schools and other secondary schools.

CIVIL GOVERNMENT. The Constitution of the United States; Federal Government and State Government.

ALGEBRA. The whole subject as far as logarithms, as given in *Wentworth's College Algebra*, or an equivalent in the larger treatises of other authors.

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GEOMETRY. Plane and Solid, including the solution of simple original problems and numerical examples as given in the works of *Wentworth*, *Chauvenet*, *Newcomb*, or an equivalent in treatises by other authors.

PHYSICAL GEOGRAPHY. As given in *Tarr's* text-book or an equivalent treatise.

ZOOLOGY. Elementary.

PHYSIOLOGY. *Martin's Human Body*, or an equivalent text.

BOTANY. Elementary.

CHEMISTRY. Elements of inorganic chemistry. The preparation in this subject must include a course of lectures and recitations, and laboratory work in which at least fifty experiments have been exemplified.

PHYSICS. Elementary. The preparation in this subject should include a course of lectures illustrated by experiments, and recitations from a text-book similar to *Carhart and Chute's*, *Gage's* or *Millikan and Gale's*. Laboratory work is required. Applicants may present either chemistry or physics provided either subject has occupied one whole year with five recitations a week.

FRENCH AND GERMAN. A three year's study of either German or French and one year of French or German is required for entrance on the Program in Letters and the Program in History and Economics. Students who began French in the second preparatory year must have taken up German in the fourth preparatory year and shall continue it for two years in the College Course. A like regulation holds for those who began German in the second preparatory year. Applicants for the Program of Classics present a year of French or German.

The entrance examination requires sight translation of ordinary German or French prose: an ability to translate, rather than accurate grammatical knowledge is expected.

**STUDIES PRESCRIBED FOR THE DEGREE OF BACHELOR  
OF ARTS**

**FRESHMAN YEAR**

SUBJECTS	Hrs. a Week	See for Description		SUBJECTS	Hrs. a Week	See for Description	
		Page	Course			Page	Course
First Semester				Second Semester			
Latin	4	42	I	Latin	4	42	, II
Greek	4	38	I	Greek	4	38	II
English	3	34	I	English	3	34	I
History	4	41	I	History	4	41	I
Elocution	1	32	III	Elocution	1	32	IV
Elocution	1	34	VIII	Elocution	1	34	VIII

**SOPHOMORE YEAR**

Latin	4	43	III	Latin	4	43	IV
Greek	4	38	III	Greek	4	38	IV
Philosophy	4	48	I	Philosophy	4	48	I
English	3	34	II	English	3	34	II
Elocution	1	34	VIII	Elocution	1	34	VIII

**JUNIOR YEAR**

Latin	4	43	V	Latin	4	44	VI
Greek	4	39	V	Greek	4	39	VI
Philosophy	4	49	II	Philosophy	4	49	II
English	3	35	III	English	3	35	III
Elocution	1	34	VIII	Elocution	1	34	VIII

**SENIOR YEAR**

Latin	4	44	VII	Latin	4	45	VIII
Greek	4	40	VII	Greek	4	40	VIII
Philosophy	4	50	III	Philosophy	4	50	III
English	3	35	IV	English	3	35	IV
Elocution	1	33	VI	Elocution	1	33	VII

**STUDIES PRESCRIBED FOR THE DEGREE OF BACHELOR  
OF LETTERS**

**FRESHMAN YEAR**

SUBJECTS	Hrs. a Week	See for Description		SUBJECTS	Hrs. a Week	See for Description	
		Page	Course			Page	Course
First Semester				Second Semester			
English	3	34	I	English	3	34	I
Latin or	4	42	I	Latin or	4	42	II
Elective	5			Elective	5		
French or	5	36	II	French or	5	36	II
German	5	37	II	German	5	37	II
History	4	41	I	History	4	41	I
Elocution	1	32	III	Elocution	1	32	IV
Elocution	1	34	VIII	Elocution	1	34	VIII

**SOPHOMORE YEAR**

English	3	34	II	English	3	34	II
Philosophy	4	48	I	Philosophy	4	48	I
Latin or	4	43	III	Latin or	4	43	IV
Elective	5			Elective	5		
French or	4	37	III	French or	4	37	III
German	4	38	III	German	4	38	III
History	3	41	IIa	History	3	41	IIa
Elocution	1	34	VIII	Elocution	1	34	VIII

**JUNIOR YEAR**

English	3	35	III	English	3	35	III
Latin or	4	43	V	Latin or	4	44	VI
Elective	5			Elective	5		
Philosophy	4	49	II	Philosophy	4	49	II
History	4	41	III	History	4	41	III
Elocution	1	34	VIII	Elocution	1	34	VIII

**SENIOR YEAR**

English	3	35	IV	English	3	35	IV
Latin or	4	44	VII	Latin or	4	45	VIII
Elective	5			Elective	5		
Philosophy	4	50	III	Philosophy	4	50	III
Elective	4			Elective	4		
Elocution	1	33	VI	Elocution	1	33	VII

**STUDIES PRESCRIBED FOR THE DEGREE OF BACHELOR  
OF PHILOSOPHY**

**FRESHMAN YEAR**

SUBJECTS	Hrs. a Week	See for Description		SUBJECTS	Hrs. a Week	See for Description	
		Page	Course			Page	Course
History	4	41	I	History	4	41	I
English	3	34	I	English	3	34	I
French or	5	36	II	French or	5	36	II
German	5	37	II	German	5	37	II
Polit. Science	4	50	I	Polit. Science	4	50	I
Elocution	1	32	III	Elocution	1	32	IV
Elocution	1	34	VIII	Elocution	1	34	VIII

**SOPHOMORE YEAR**

History	3	41	IIa	History	3	41	IIa
Political Science	4	50	II	Political Science	4	50	IIIa
Philosophy	4	48	I	Philosophy	4	48	I
English	3	34	II	English	3	34	II
German or	4	38	III	German or	4	38	III
French	4	37	III	French	4	37	III
Elocution	1	34	VIII	Elocution	1	34	VIII

**JUNIOR YEAR**

History	4	41	IIb	History	4	41	IVa
Political Science	4	50	IIIb	Political Science	4	51	IV
Philosophy	4	49	II	Philosophy	4	49	II
History	4	41	III	History	4	41	III
Elocution	1	34	VIII	Elocution	1	34	VIII

**SENIOR YEAR**

History	3	42	IVb	History	3	42	IVb
Political Science	6	51	V, VI	Political Science	6	51	VI, VII, VIII
Philosophy	4	50	III	Philosophy	4	50	III
English	3	35	III	English	3	35	III
Elocution	1	33	VI	Elocution	1	33	VII

## COURSES OF INSTRUCTION

*(In the description of the courses of instruction an hour means forty-five to sixty minutes in the recitation or lecture room and one hundred and twenty minutes in the laboratory, the drawing room or the shop. A semester means a half year.)*

### CHRISTIAN DOCTRINE

All Catholic students are obliged to attend the courses in Christian Doctrine.

#### FIRST YEAR

MORAL. The Articles of the Creed. The General Principles of Morality. Virtue and Sin. The Commandments of God. Text-book, *Manual of Christian Doctrine*.

#### SECOND YEAR

MORAL. The Commandments of the Church. The Evangelical Counsels and Beatitudes. Worship and Means of Sanctification,—Grace, Prayer, the Sacraments, Liturgy. Text-book, *Manual of Christian Doctrine*.

#### THIRD YEAR

DOGMA. Revealed Religion. Pre-Christian Revelation. The Christian Revelation. The Catholic Church. God Considered in Himself. Text-book, *Wilmer's Handbook of the Christian Religion*.

#### FOURTH YEAR

DOGMA. God the Creator. God the Redeemer. Sanctification. Grace. The Sacraments. The Church as a Means of Salvation. Text-book, *Wilmer's Handbook of the Christian Religion*.

#### DRAWING, ARTISTIC

In this department the aim is to lay a thorough foundation in drawing for those who wish to make Art a profession, but the courses are so arranged as to be accessible

to other students. The system of teaching, which is that followed in the best art schools, is intended to develop the individuality of each student, so that with a good understanding of the principles of art, he may interpret nature according to his own temperament.

The work is done altogether from cast, object and nature. The immediate surroundings of the University buildings, the mountains and the Willamette River offer many beautiful subjects for the study of landscapes, and the classes are taken out in the Summer for this study.

There is a complete set of decorative and architectural ornaments, taken from monuments of antiquity, the Middle Ages and the Renaissance, and of elements of the human figure (hands, feet, etc.), from the antique, and some anatomical pieces.

## ELEMENTARY CLASS

### I.

(a) Drawing from casts of ornaments purely geometrical, such as moldings, ovoloes, dentils, etc. Sketching from simple objects.

(b) Drawing from casts of ornaments of which the elements are living forms, such as ornamental leaves and flowers. Sketching from nature, leaves and flowers.

(c) Drawing from architectural elements, such as pedestals, bases, shafts, cornices, etc. Lectures on perspective, direction of the principal lines in relation to the horizon. Elementary notions of the five orders of architecture.

(d) Drawing from casts of the human figure; hands, feet, masks, etc. Architectural ornaments. Sketching from familiar objects.

## ANTIQUE CLASS

### II.

(a) Drawing from the antique of heads and busts. Still life drawing. Sketches of landscapes from nature. Selection of a subject. Composition in landscape. Applications of perspective.

(b) Drawing from the antique, full figure. Occasional studies of the head from the living model. Sketching from the costumed model. Still life in water colors. History of Art.

### III.

LIFE CLASS. Drawing from life. Artistic anatomy. Anatomical studies from the collections of Science Hall. Still life painting in water colors and oil. Landscape painting. Drawing for illustration.

### IV.

SKETCH CLASS. One hour a week. The students have themselves an organization, "The Crayon Club," the object of which is to sketch college scenes and to do illustrative work; these sketches are brought into class and criticised.

### V.

MODELLING. One entire week in the Spring terms of the Sophomore, Junior and Senior years is devoted to modelling in clay. The objects modelled are architectural forms, copied from the cast or made from the student's drawings of his own work, as his progress and ability may warrant.

### VI.

CLASS OF DECORATIVE DESIGN. The object of this department is to prepare students for professional work in

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decorative designings of all kinds. They will take up the study of historical ornaments and will be taught the several principles of the arrangement of designs, and from personal sketches of plants and flowers will be shown the art of making original designs for wall paper, book covers, stained glass, carpets, interior decorations, metal plates, etc. No particular program is given out, as the teaching is purely individual.

### ELOCUTION AND ORATORY

#### I.

READINGS AND DECLAMATIONS. This course is designed to correct defects in pronunciation and emphasis. Each student is required to give two declamations.

[One hour a week for one semester.]

#### II.

READINGS AND DECLAMATIONS. Continuation of Course I. Each student is required to give three declamations.

[One hour a week for one semester.]

#### III.

PRACTICAL ELOCUTION. Exercises in breathing, voice culture, and action. The principles of pronunciation and emphasis and their application in the reading of selections. Text-book, *Fulton and Trueblood's Practical Elocution*.

[One hour a week for one semester.]

#### IV.

PRACTICAL ELOCUTION. Further exercises in breathing, voice culture, action. Quality, force, pitch and time. Minute speeches and declamations. Lectures on the prin-

ciples of action. Text-book, *Fulton and Trueblood's Practical Elocution.*

[One hour a week for one semester.]

## V.

ORAL DISCUSSIONS. The application of formal logic to debating. Analysis of selected argumentative speeches, and the preparation of briefs. Courses III. and IV. and a course in logic are required for admission to this course. Sections are limited to twenty-four students.

[One hour a week for one semester.]

## VI.

SHAKESPERIAN READING. The critical and artistic reading of two of Shakespere's plays accompanied with stage action. The students present the play by scenes before the class. Courses III. and IV. are required for admission to this course. Sections are limited to twenty-four students. This course alternates with Course VII., described below.

[One hour a week for one semester.]

## VII.

ORATORY. A study of the great orators of ancient and modern times. Each student is required to write and deliver a biographical oration on one of the great orators. Lectures on methods of public address. Courses III. and IV. above, and Course I. in English are required for admission to this course. Sections are limited to twenty-four students. This course alternates with Course VI., described above.

[One hour a week for one semester.]

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VIII.

ASSEMBLY WORK. This course is designed to supplement the other courses in this department. It consists of debates, short orations, minute speeches, declamations, impromptus and drill work in parliamentary law.

[One hour a week for six semesters.]

## ENGLISH

## I.

(a) PROSE FORMS. Special treatment of Exposition and Argumentation. *Genung's Working Principles of Rhetoric, Part II.* Frequent practice in writing essays.

[Two hours a week for one semester.]

(b) Heydrick's *How to Study Literature*, with practical exercises in analysis of literary forms.

[One hour a week for one semester.]

(c) LITERATURE. *Higginson and Boynton's.* In this course the student acquires a good knowledge of the contents of American literature. The biography of men of letters is also a part of this course.

[One hour a week for two semesters.]

(d) LYRIC POETRY. The technique is carefully laid down and choice specimens of lyric poetry are read critically in class. There is much required reading and writing.

[One hour a week for one semester.]

## II.

(a) PROSE FORMS. Special study of the Novel and the Short Story. The development of the novel is carefully studied, and its kinship with other forms of narrative is pointed out. Frequent practice in writing.

[Two hours a week for one semester.]

(b) LITERATURE. The development of English literature is studied, minute attention being given to great periods.

[One hour a week for two semesters.]

(c) THE SONNETT. Technique and analysis of famous sonnets.

[One hour a week for one semester.]

### III.

(a) PROSE FORMS. Intensive study of the Essay and the Oration. Each student in this course is required to read the great essays and orations in English literature. He must produce four essays and two orations during the term.

[Two hours a week for one semester.]

(b) LITERATURE. Recent English and American Poetry. This course deals not only with the best work done in recent volumes of collected verse, but also takes account of the best fugitive pieces in the magazines.

[Two hours a week for one semester.]

(c) DIDACTIC POETRY AND SATIRE. This course involves reading chiefly.

[One hour a week for two semesters.]

### IV.

(a) THE LAWS OF THE EPIC AND THE DRAMA. *Ker's* treatise on the Epic, with required readings in narrative poetry. *Freytag's Technique of the Drama*, with supplementary notes.

[Two hours a week for one semester.]

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- (b) SHAKESPERE. Reading and Analysis of Plays.  
[Two hours a week for one semester.]
- (c) THE LEADING POETS OF THE NINETEENTH CENTURY. Analytical study and required reading.  
[One hour a week for two semesters.]

### FRENCH

#### I.

Grammar with written and oral exercises; the inflection of nouns and adjectives, the use of all the pronouns, the conjugation of regular and the common irregular verbs; the correct use of moods and tenses, the essentials of French syntax, and the common idiomatic phrases. *Frazer and Squair's Grammar*. Reading three of the following: *La Tache du Petit Pierre, Mairet*; *Un Cas de Conscience, Gervais*; *La Main Malheureuse, Guerber*; *Sans Famille, Malot*; *Super's Readings from French History*.

[Five hours a week for two semesters.]

#### II.

Advanced grammar and composition, study of idioms, memorizing. *Frazer and Squair's Grammar*. Dictations and conversations are added on practical topics, and careful translation made of five of the following works: *Le Voyage de M. Perrichon, Labiche*; *Roman d'un Jeune Homme Pauvre, Feuillet*; *Fables choisies, La Fontaine*; *Le Medecin Malgre Lui, Moliere*; *Le Cid, Corneille*; *Esther, Racine*; *Pages oubliees de Chateaubriand*; *La Question d'Argent, Dumas*; *Standard French Authors, Guerlac*.

[Five hours a week for two semesters.]

### III.

The study of this course is devoted chiefly to the prose and poetry of the nineteenth century and includes composition, conversation, history and general view of French literature. Besides a reading and criticism of the best writers, such as: *Causieres du Lundi, Ste. Beuve; On Rend l'Argent, Coppee; Hernani; Hugo; Meditations, Lamartine; Athalie, Racine; L'Avare, Moliere; Mlle. de la Seiglierie, Sandeau; Les Origines de la France Contemporaine, Taine; Expedition de Bonaparte en Egypte, Thier; Ste. Elizabeth de Hongri, Montalembert; Historie de la Litterature Francaise, Duval.*

[Five hours a week for two semesters.]

N. B.—The works studied are not necessarily the same every year.

### GERMAN

#### I.

Grammar, *Thomas*, Part I. Translation from German into English of simple prose; translation of English exercises into German. Reading of short stories and selections from more difficult prose.

German Reader, *Thomas and Hervey*.

[Five hours a week for two semesters.]

#### II.

Grammar, *Thomas*, Part II. Translation into German of narrative prose and selections from history. Sight reading of selections from history.

Herman and Dorethea, *Goethe*; Lichtenstein, *Hauff*.

[Five hours a week for two semesters.]

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III.

Grammar, *Thomas*, Part III. Sight reading of plays, poems and prose writing. Translation of selections from history and literature; original essays.

Minna von Barnhelm, *Lessing*; best known poems, *Heine*; Correspondence, *Schiller-Goethe*.

[Four hours a week for two semesters.]

## GREEK

## I.

LYSIAS. Orations selected. Short history of the Attic orators.

HOMER. *Odyssey*.

Prose Composition based on Lysias.

Epitome of the New Testament: Parts IV., V., *Stoffel*.

[Four hours a week for one semester.]

## II.

LYSIAS. Orations selected.

HOMER. *Odyssey*.

Prose Composition based on Lysias.

ST. JOHN CHRYSOSTOM. *Eutropius*.

[Four hours a week for one semester.]

## III.

HERODOTUS. Selections. Study of Herodotus dialect.

Advanced Greek Prose Composition.

ST. BASIL. *De Profanis Scriptoribus*.

[Four hours a week for one semester.]

## IV.

HERODOTUS. Selections.

Selections from the Greek Lyric Poets.

Advanced Greek Prose Composition.

ST. GREGORY. Machabees.

[Four hours a week for one semester.]

## V.

DEMOSTHENES. The Speech on the Crown, or the Olynthiacs and the Philippics. Review of the political situation at Athens and events bearing upon the orations.

THUCYDIDES. Book I. Greece before the Peloponnesian War. Importance of this war in Greek history. The speeches will form the subjects for special class interpretations. Stylistic differences between pure Attic and archaic Attic will be pointed out.

During this course special attention will be given to textual and exegetical criticism, practically shown by passages selected for that purpose. This is done in the belief that it is the best way to make students appreciate the notes in school editions of classical authors.

PRACTICAL EXERCISES. Embodying idiomatic expressions of the authors read.

[Four hours a week for one semester.]

## VI.

AESCHYLUS. One play to vary each year. In connection with it will be discussed the origin of the drama, the part of the chorus in the early tragedy and the religious tenets of Aeschylus. The structure of a Greek tragedy, the iambic trimeter and the lyric meters will be sufficiently explained so as to be properly appreciated by the students. Incidentally also the Greek festivals, at which the plays were staged, and the Dionysiac theater will be discussed.

SOPHOCLES. Oedipus Tyrannus and Antigone. Digest

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of the Theban legends. Religious views of Sophocles compared with those of Aeschylus.

ELEMENTS OF GREEK LITERATURE. Students shall use *Jebb's Primer of Greek Literature.*

[Four hours a week for one semester.]

## VII.

EURIPIDES. One play, to vary each year. Religious tendencies of Euripides. His style as compared with that of Aeschylus and Sophocles. Dramatic art, and his right to the title of "Scenic Philosopher."

ARISTOPHANES. One play, selected from the following list: The Acharnians, the Knights, the Frogs, the Clouds, the Birds, or the Wasps. In connection with the reading of these plays will be treated the Greek comedy,—its origin, nature, and aim. Aristophanes, the great burlesque critic of Athenian life and manners. The structure of a comedy compared with that of a tragedy.

PRACTICAL EXERCISES in Greek composition.

[Four hours a week for one semester.]

## VIII.

PINDAR. Selected Odes, in connection with which the public games will be studied. *Elective.*

GREEK FATHERS. St. Basil. The Martyr Gordius. St. John Chrysostom. The Return of Bishop Flavian. St. Gregory Nazianzen. Funeral Oration of Cæsarius. *Elective.*

PLATO. Apology and Crito. Socrates—his friends and enemies. Athenian court proceedings.

[Four hours a week for one semester.]

**HISTORY**  
**ANCIENT HISTORY**

I.

(a) ANCIENT GREECE to the conquest by Rome of the Hellenic world. Readings and examinations on required texts. This course is given in alternate years with Course I. (b).

[Four hours a week for two semesters.]

(b) ANCIENT ROME to the barbarian invasions. Readings, and examinations of required texts. This course is given in alternate years with Course I. (a).

In both courses the student is required to become familiar with the institutions of the ancient world, and to study the same in *De Coulanges' The Ancient City*.

[Four hours a week for two semesters.]

**MEDIEVAL AND MODERN HISTORY**

II.

(a) THE HISTORY OF THE MIDDLE AGES from the invasion of the barbarians, and the history of the periods of the Renaissance and the Reformation of 1603. Readings, and examinations on required texts.

[Three hours a week for two semesters.]

(b) THE GENERAL HISTORY OF EUROPE from the beginning of the seventeenth century to the present time. Readings, and examination on required texts.

[Four hours a week for one semester.]

III.

THE HISTORY OF THE BRITISH ISLES TO THE REVOLUTION IN 1689. For the narrative *Gardiner's Students' History* is used as a text and is supplemented by lectures. In

the study of the development of political institutions *Feilden's Constitutional History* is used. In addition, students shall make free use of the library in preparing special topics upon which they shall report orally in class.

[Four hours a week for two semesters.]

## AMERICAN HISTORY

### IV.

(a) AMERICAN HISTORY FROM ITS BEGINNING TO 1763. A large part of the work of this and the following course consists in the preparation and presentation in class of special topics by the students. An effort will be made to train the student in the use of original sources as well as in the discriminating use of secondary works. Weekly written tests are given upon the lectures and the assigned collateral reading.

[Four hours a week for one semester.]

(b) AMERICAN HISTORY FROM 1763 TO THE PRESENT TIME. Treatment as in (a) above. Also a book review, a bibliographical report and a biographical essay by each student.

[Three hours a week for two semesters.]

## LATIN

### I.

LIVY. Book XXI. Study of Livy's grammar and style.

CICERO. Epistles selected.

PROSE COMPOSITION. Frequent practice in writing.

[Four hours a week for one semester.]

## II.

LIVY. Book XXII.

CICERO. De Senectute and De Amicitia.

PLINY. Epistles selected.

PROSE COMPOSITION. Frequent writing of continuous prose.

[Four hours a week for one semester.]

## III.

CICERO. De Oratore. Book I.

HORACE. Odes and Epodes. Study of metrical systems; peculiarities of styles; plan of composition; comparison with Odes of a similar nature.

ADVANCED PROSE COMPOSITION. Frequent practice in writing.

[Four hours a week for one semester.]

## IV.

TACITUS. Dialogus De Oratoribus.

HORACE. Odes and Epodes; or, Satires selected. See Course III.

TERENCE. Phormio. Short history of Greek and Roman comedy.

ADVANCED PROSE COMPOSITION. Frequent practice in writing.

[Four hours a week for one semester.]

## V.

LIVY. Roman History, First Book. In the reading of the text particular attention is called to the rules of syntax—roots and derivation of words—and the ancient history, geography and mythology.

LATIN COMPOSITION twice a week, either paraphrases or original. Short fables and stories.

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HORACE. Epistula ad Pisones translated, analyzed and criticised from a philological and literary standpoint.

ANCIENT LITERATURE. Historians and Lyric Poets: their lives, their works, their genius.

[Four hours a week for one semester.]

## VI.

TACITUS. Agricola and Germania. While reading the text a comparison is made with the private and public manners of modern nations.

TERENCE. Andria. Sight reading.

HORACE. The Literary Epistles.

Weekly practice in written composition, Latin conversation and versification.

ANCIENT LITERATURE. Dramatists of Greece and Rome compared and discussed.

[Four hours a week for one semester.]

## VII.

QUINTILIAN. De Institutione Oratoria, Books Tenth and Twelfth. Translation. The explanation embraces a literary criticism of Grecian and Roman orators, and practical remarks on Latin idioms and the fine arts of antiquity.

Short orations or dissertations, and practical conversations take place weekly.

PLAUTUS. Captivi. The study of the play gives a full knowledge of the characters, the plot, the style, the archaic forms and the construction peculiar to the author.

ANCIENT LITERATURE. Orators, especially Demosthenes and Cicero.

[Four hours a week for one semester.]

## VIII.

CICERO. *De Officiis*. Partly sight reading. Besides the study of the work from a philological standpoint, the student is made acquainted with the main systems of Grecian philosophy, and continual reference is made to Course III. in philosophy.

Oratorical and philosophical compositions alternate weekly. Latin conversations on general topics.

LUCRETIUS. *De Rerum Natura*. Select passages. Synopsis of the poem. Statement and refutation of erroneous philosophical systems of antiquity. Analogy with the errors of our day. Style of the writer.

ANCIENT LITERATURE. Philosophers, particularly Socrates, Plato, Aristotle, Cicero and Seneca.

[Four hours a week for one semester.]

## MUSIC

### FIRST YEAR

#### I.

VIOLIN. Studies of Wichtl, Ries, Mazas, Kreutzer, Fiorillo. Compositions by Dancla, DeBeriot, Sitt.

#### II.

PIANOFORTE. Koehler's and Damm's *Piano School*. Studies by Loeschorn, Berens, Czerny, Heller, Sonatinas and easy sonatas by Clementi, Haydn, Reinecke and Mozart. *Jugend Album* and *Kinderscenen* by Schumann.

#### III.

VOICE PRODUCTION. Tone placing. Diaphragmatic breath-control. Articulation. Text-books, Shakespeare

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*Art of Singing, Part I; Kofler Art of Breathing; Studies by Bassini, English songs.*

VOCAL SIGHT READING. Elementary Theory of Music. Intervals and ear-training. Choir practice.

#### IV.

ORGAN. Rink *Organ School*. Eugene Thayer *Studies*. *Light Preludes and Fugues* by Bach.

#### SECOND YEAR

##### I.

VIOLIN. Studies by Rode, Schradieck, Dont. Sonatas and pieces by Tartini, Bach, Beethoven, Mozart.

##### II.

PIANOFORTE. Studies by Czerny, Heller, Hasert, Le-coupppy, Cramer, Krause. Octave studies by Turner. Bach's preludes, fugues and inventions. Sonatas and pieces by Mozart, Haydn, Beethoven, Mendelssohn, Schumann, Schubert.

##### III.

VOICE PRODUCTION. Advanced breathing exercises. Study of the chest and falsetto registers. Stroke of the glottis. Text-books, Shakespeare's *Art of Singing, Parts II. and III.*, *Studies* from Italian operas; French and English songs.

VOCAL SIGHT READING. Phrasing, punctuation and advanced study. Practice in operatic chorus work.

#### IV.

ORGAN. Schneider-Warren *Pedal Studies*. Easy sonatas by Mendelssohn, Merkel, Rheinberger. Preludes,

fugues by Bach. *Twenty studies* by Whiting. *Canonic Studies* by Chadwick.

## V.

HARMONY. Construction and use of chords. Harmonization of melodies. Harmonizing from figured bass. Textbooks, Goetschius *Tone Relations*; Logier's *Harmony*.

## THIRD YEAR

### I.

VIOLIN. Sonatas by Bach. Studies by Schradieck-Alard, Wieniawski. Concertos and pieces by Spohr, Vieuxtemps, Mendelssohn, Dvorak.

### II.

PIANOFORTE. *Gradus ad Parnassum*, Clementi-Tausig, *Das Wohl Temperirte Klavier* by Bach. *English and French Suites* by Bach. *Etudes* by Harberbier and Henselt. Sonatas, concertos and pieces by Beethoven, Weber, Mendelssohn, Chopin, Schubert and Grieg.

### III.

VOICE PRODUCTION. Study of trill, mordent, gruppetto, etc. *Messa de Voce*.

### IV.

ORGAN. Sonatas, preludes and *Chorale Vorspiele* by Bach. Concert pieces by Handel, Merkel, Salome, Whistling, Best, Rheinberger.

HARMONY. *Counterpoint*. Simple two and four part counterpoint; double and florid counterpoint. Canon, fugue.

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FOURTH YEAR

## I.

VIOLIN. Studies by Paganini. Concertos and pieces by Beethoven, Brahms, Bruch, Joachim and others.

PIANOFORTE. Studies by Taussig and Chopin. Sonatas, concertos and concert pieces by Schumann, Brahms, Rubinstein, Liszt.

## III.

ORGAN. The greater preludes, fantasies and fugues of Bach. Sonatas and concert pieces by Thiele, Widor, Dubois, Guilmant and Saint-Saens.

## IV.

HARMONY. Composition. Construction of musical forms, i. e., the sonata, rondo, etc. Practical application in an original manner of these forms. Orchestration.

## ORCHESTRAL INSTRUMENTS

Instruction is also given on the viola, flute, piccolo, cornet, trombone, guitar and mandolin.

Opportunity is given to the advanced students of playing in the University Orchestra and the University Band.

## SINGING CLASS

There is an organization of musical students open only to those taking lessons in vocal music; the Choir and the Glee Club are selected from the members of this class.

## PHILOSOPHY

## I.

(a) PHYSIOLOGICAL PSYCHOLOGY. This course is a fairly comprehensive treatment of the physical basis of consciousness.

(b) EXPERIMENTAL AND DESCRIPTIVE PSYCHOLOGY. The primary laws of consciousness; psycho-physical methods and results.

(c) RATIONAL PSYCHOLOGY. The problems of the mind. Nature, origin and destiny of the soul.

[courses *a*, *b* and *c* are consecutive. Lectures three hours a week for two semesters.]

(d) LABORATORY EXERCISES. Experiments will be conducted with special reference to their value as aids to introspection. *Sanford's Manual of Experimental Psychology*, *Fitchner's Experimental Psychology*, Vol I.

[One hour a week for two semesters.]

## II.

(a) ELEMENTS OF EPISTEMOLOGY. A study of the Scholastic theory of knowledge in relation to the teachings of Descartes, Leibnitz, Locke, Berkeley, Hume, Kant and Spencer.

(This course is intended to be introductory to Logic and General Metaphysics and will be given at the beginning of the year during the time prescribed for these studies.)

(b) LOGIC. *Hyslop's Elements of Logic*.

[Two hours a week for two semesters.]

(c) GENERAL METAPHYSICS. Transcendental concepts; their value in different systems of philosophy.

[Two hours a week for one semester.]

(d) COSMOLOGY. The fundamental concepts of the natural sciences in relation to Thomistic philosophy.

[One hour a week for one semester.]

(e) THEODICY. The existence of God; His attributes; His presence in the universe.

[One hour a week for one semester.]

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(f) STUDENT DISCUSSIONS. From time to time throughout the year students will be required to read and discuss papers on various subjects in the field of philosophic inquiry.

### III.

(a) ETHICS. The theory of morals, with special reference to practical problems.

[Four hours a week for one semester.]

(b) OUTLINES OF THE HISTORY OF PHILOSOPHY. *Turner's History of Philosophy.*

[Four hours a week for one semester.]

## POLITICAL SCIENCE

### ECONOMICS

#### I.

THE ELEMENTS OF ECONOMICS. A general survey of the subject based upon the study and discussion of *Seager's Introduction to Economics.*

[Four hours a week for two semesters.]

#### II.

INDUSTRIAL HISTORY AND THE HISTORY OF ECONOMIC THOUGHT. Studies in the *Evolution of Industrial Society* by *Ely*, and in a *History of Political Economy* by *Ingram*.

[Four hours a week for one semester.]

#### III.

(a) MONEY, CREDIT AND BANKING, with special treatment of the monetary experiences of the United States. The text-book used is *Money and Banking* by *White*.

[Four hours a week for one semester.]

(b) PUBLIC FINANCE. History of finance, expenditure, revenue and debt of States, with special reference to

American experience. Lectures and text.

[Four hours a week for one semester.]

#### IV.

DISTRIBUTION. Rent, interest, wages, profits. Special studies in land and labor problems and Socialism. The text-book used is *The Distribution of Wealth* by Carver, for readings *Labor Problems* by Adams and Sumner, *Progress and Poverty* by George, *Collectivism* by Vandervelde, *Contemporary Socialism* by Rae, and others.

[Four hours a week for one semester.]

#### POLITICS

#### V.

THE ELEMENTS OF POLITICS. General survey. Text, *First Principles in Politics*, Lilly.

[Two hours a week for one semester.]

#### VI.

AMERICAN GOVERNMENT AND POLITICS. Text, *Actual Government*, Hart.

[Two hours a week for one semester.]

#### VII.

JURISPRUDENCE. A course covering (a) the outlines of the Science of Law. (b) The elements of International Law. (c) Lectures on selected topics of Roman and Canon Law. Lectures, readings, and examinations on required texts.

[Two hours a week for two semesters.]

#### SOCIOLOGY

#### VIII.

THE ELEMENTS OF SOCIOLOGY. Text, *Elements of Sociology*, Giddings.

[Four hours a week for one semester.]

**PREPARATORY OR  
HIGH SCHOOL**

### PREPARATORY OR HIGH SCHOOL

The University maintains a fully equipped Preparatory School. The schedules of studies are arranged to meet the need of thorough preparation for collegiate work, and embrace courses which, while giving as wide an education as can be obtained in the very best High Schools, prepare students directly for the group of studies they may elect when entering the Freshman year. Five different programs of instruction are offered to students, each containing such special courses as directly meet the needs of fifteen college groups, while all embrace common subjects which are indispensably necessary in acquiring a fairly liberal education. The period of instruction covers fours years. Diplomas are conferred.

The equipment and facilities for study in the Preparatory School are most complete. The laboratories are extensive and fully supplied with the latest improved appliances. The classes pursuing any subject are divided into sections, each containing a limited number of students. The sections are purposely limited in order that each student may receive close attention from the instructor in every recitation and laboratory period.

Examinations for admission are held at the opening of the School in September, and embrace the subjects completed in the highest grade in the Grammar School. The expense for tuition, board, laundry, etc., will be found on pages 18 and 19. The following fees are special to the Preparatory School:

### LABORATORY FEES

Science C—Elementary Botany.....	\$2.50
Science D—Elementary Zoology.....	2.50
Science E—Elementary Chemistry .....	5.00
Science F—Elementary Physics.....	5.00

**STUDIES PREPARATORY FOR THE DEPARTMENT OF  
CLASSICS IN THE COLLEGE OF ARTS  
AND LETTERS**

**FIRST YEAR**

SUBJECTS First Semester	Hrs. a Week	COURSE	SUBJECTS Second Semester	Hrs. a Week	COURSE
Latin	5	A	Latin	5	A
English	5	A	English	5	A
History	5	A	History	5	A
Mathematics	5	A	Mathematics	5	B
Science	5	B	Science	5	D

**SECOND YEAR**

Latin	5	B	Latin	5	B
Greek	5	A	Greek	5	A
English	5	B	English	5	B
History	5	B	History	5	B
Mathematics	5	C	Science	5	C

**THIRD YEAR**

Latin	5	C	Latin	5	C
Greek	5	B	Greek	5	B
English	5	C	English	5	C
History	5	C	Civil Gov'm't	5	A
Mathematics	5	D	Mathematics	5	D

**FOURTH YEAR**

Latin	5	D	Latin	5	D
Greek	5	C	Greek	5	C
English	5	D	English	5	D
German or French	5	A	German or French	5	A
Science or Science	5	E	Science or Science	5	E
	5	F		5	F

**STUDIES PREPARATORY FOR THE DEPARTMENT OF LETTERS AND THE DEPARTMENT OF HISTORY AND ECONOMICS IN THE COLLEGE OF ARTS AND LETTERS**

**FIRST YEAR**

SUBJECTS First Semester	Hrs. a Week	COURSE	SUBJECTS Second Semester	Hrs. a Week	COURSE
Latin	5	A	Latin	5	A
English	5	A	English	5	A
History	5	A	History	5	A
Mathematics	5	A	Mathematics	5	B
Science	5	B	Science	5	D

**SECOND YEAR**

Latin	5	B	Latin	5	B
French or German	5	A	French or German	5	A
English	5	B	English	5	B
History	5	B	History	5	B
Mathematics	5	C	Science	5	C

**THIRD YEAR**

Latin	5	C	Latin	5	C
French or German	5	B	French or German	5	B
English	5	C	English	5	C
History	5	C	Civil Gov'm't	5	A
Mathematics	5	D	Mathematics	5	D

**FOURTH YEAR**

Latin	5	D	Latin	5	D
French or German	4	C	French or German	4	C
English	5	D	English	5	D
German or French*	5	A	German or French	5	A
Science or Science	5	E	Science or Science	5	E
	5	F		5	F

\*Students who begin French A in the second year must begin German A in the fourth year.

**STUDIES PREPARATORY FOR THE COLLEGE  
OF SCIENCE**

**FIRST YEAR**

SUBJECTS First Semester	Hrs. a Week	COURSE	SUBJECTS Second Semester	Hrs. a Week	COURSE
English	5	A	English	5	A
Mathematics	5	A	Mathematics	5	B
Latin	5	A	Latin	5	A
Drawing	5	A	Drawing	5	B
Science	5	A	Science	5	D

**SECOND YEAR**

English	5	B	English	5	B
Mathematics	5	C	Drawing	5	I
History	5	A	History	5	A
Science	5	B	Science	5	C
Latin	5	B	Latin	5	B

**THIRD YEAR**

English	5	C	English	5	C
Mathematics	5	D	Mathematics	5	D
German	5	A	German	5	A
History	5	B	History	5	B
Science	5	E	Science	5	E

**FOURTH YEAR**

English	5	D	English	5	D
Mathematics	5	E	Mathematics	5	F
German	5	B	German	5	B
Science	5	F	Science	5	F
History	5	C	Civil Gov'm't	5	A

**STUDIES PREPARATORY FOR THE COLLEGES OF  
ENGINEERING AND ARCHITECTURE**

**FIRST YEAR**

SUBJECTS First Semester	Hrs. a Week	COURSE	SUBJECTS Second Semester	Hrs. a Week	COURSE
English	5	A	English	5	A
Mathematics	5	A	Mathematics	5	B
Drawing	5	A	Drawing	5	B
Science	5	A	Science	5	D
*German	5	A	German	5	A

**SECOND YEAR**

English	5	B	English	5	B
Mathematics	5	C	Drawing	5	I
History	5	A	History	5	A
Science	5	B	Science	5	C
German	5	B	German	5	B

**THIRD YEAR**

English	5	C	English	5	C
Mathematics	5	D	Mathematics	5	D
History	5	B	History	5	B
Science	5	E	Science	5	E
German	4	C	German	4	C

**FOURTH YEAR**

English	5	D	English	5	D
Mathematics	5	E	Mathematics	5	F
History	5	C	Civil Gov'm't	5	A
Science	5	F	Science	5	F

\*French may be substituted for German.

## PREPARATORY COURSES

### CIVIL GOVERNMENT

#### A.

This is a study of the science of government in connection with American institutions. The subject begins by defining government; then is considered the object and necessity of government; origin of civil society; the principle of suffrage; different forms of government defined and compared; theories of representation. These topics necessarily are treated briefly, as the principal part of the course consists of a study of the Colonial government, the Articles of Confederation and their defects, the formation of the Constitution and its adoption. The study further comprises a critical analysis of each article and section of the American Constitution. Text-book, *Government by State and Nation*, by James and Sanford.

[Five hours a week for one semester.]

### CHRISTIAN DOCTRINE

#### A.

(a) *Manual of Christian Doctrine, Part I.*

[Three hours a week for two semesters.]

(b) *New Testament.*

[Two hours a week for two semesters.]

#### B.

(a) *Manual of Christian Doctrine, Part II.*

[Three hours a week for two semesters.]

(b) *New Testament.*

[Two hours a week for two semesters.]

## C.

- (a) *Manual of Christian Doctrine, Part III.*  
[Three hours a week for two semesters.]
- (b) *New Testament.*  
[Two hours a week for two semesters.]

## D.

- (a) *Church History.*  
[Three hours a week for two semesters.]
- (b) *Old Testament.*  
[Two hours a week for two semesters.]

## DRAWING

## A.

This work is based on the rudiments of drawing and consists of the training necessary for the hand and the eye. Sketching is also done from simple objects of various forms.

[Five hours a week for one semester.]

## B.

Advanced work in sketching from objects such as the plaster cast of flowers and suitable ornaments which afford the study of light and shade.

[Five hours a week for one semester.]

## I.

This is an elementary course in Mechanical Drawing. It teaches the student the use of mechanical instruments and prepares him for more advanced work. It involves elementary projections and mechanical lettering.

[Five hours a week for one semester.]

## II.

A more advanced course in Mechanical Drawing. The student obtains a more extensive knowledge of projections from the geometrical problems presented for solution. In addition to such problems the student is required to execute original designs and plans of elementary subjects.

[Five hours a week for one semester.]

## ENGLISH

## A.

(a) Lockwood and Emerson: *Composition and Rhetoric*, with daily exercises in class. Two themes a week.

(b) The elements of versification. Scansion, one hour a week. Weekly exercises in writing verse. Memory work.

(c) Required reading: Robinson Crusoe, \*Evangeline, Treasure Island, Snow-Bound, \*The Sketch Book, \*The Vision of Sir Launfal, Poe's Tales, Poe's Poems, \*Julius Cæsar, \*The Merchant of Venice.

(The works marked with an asterisk are to be studied; the others read.)

[Five hours a week for two semesters.]

## B.

(a) *New Composition and Rhetoric*, by Herrick and Damon, Part I, with daily exercises in class. Two themes a week.

(b) The simpler verse forms. Weekly exercises. Memory work.

(c) Required reading: Ivanhoe, \*The Lady of the Lake, \*The Vicar of Wakefield, \*The Ancient Mariner,

The Courtship of Miles Standish, \*Silas Marner, \*The Princess, \*Macbeth, \*As You Like It.

(The works marked with an asterisk are to be studied; the others read.)

[Five hours a week for two semesters.]

### C.

(c) *New Composition and Rhetoric* by Herrick and Damon, Parts II, III, with daily exercises in class. Weekly theme first semester; fortnightly essay second semester.

(b) Verse forms continued. Weekly exercises. Memory work.

(c) Required reading: \*Sir Roger de Coverly, \*Macaulay's Essay on Addison, \*The Golden Treasury of English Lyrics, \*Macaulay's Essay on Milton, \*Milton's Minor Poems, \*A Midsummer Night's Dream, \*Burke's Speech on the Conciliation of America, \*Webster's Bunker Hill Oration, \*Lincoln's Gettysburg Oration, \*King Lear.

(The works marked with an asterisk are to be studied; the others read.)

[Five hours a week for two semesters.]

### D.

(a) *New Composition and Rhetoric*, by Herrick and Damon, Parts IV, V, with daily exercises in class. Fortnightly essay first semester; monthly essay second semester.

(b) Verse forms concluded. Weekly exercises. Memory work.

(c) Required reading: The House of the Seven Gables, \*The Idylls of the King, Selections from Paradise Lost, Cary's Dante, Gates Selections from Newman, \*The

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Dream of Gerontius, Pope's Homer, \*The Tempest, Aubrey de Vere's Poems, and \*Hamlet.

(The works marked with an asterisk are to be studied; the others read.)

[Five hours a week for two semesters.]

#### FRENCH

##### A.

Grammar with written and oral exercises; the inflection of nouns and adjectives, the use of all the pronouns, the conjugation of regular and the common irregular verbs; the correct use of moods and tenses, the essentials of French syntax, and the common idiomatic phrases. *Frazer and Squair's Grammar*. Reading three of the following: *La Tache du Petit Pierre, Mairet*; *Un Cas de Conscience, Gervais*; *La Main Malheureuse, Guerber*; *Sans Famille, Malot*; *Super's Readings from French History*.

[Five hours a week for two semesters.]

##### B.

Advanced grammar and composition, study of idioms, memorizing. *Frazer and Squair's Grammar*. Dictations and conversations are added on practical topics, and careful translation made of five of the following works: *Le Voyage de M. Perrichon, Labiche*; *Roman d'un Jeune Homme Pauvre, Feuillet*; *Fables choisies, La Fontaine*; *Le Medecin Malgre Lui, Moliere*; *Le Cid, Corneille*; *Esther, Racine*; *Pages oubliees de Chateaubriand*; *La Question d' Argent, Dumas*; *Standard French Authors, Guerlac*.

[Five hours a week for two semesters.]

## C.

The study of this course is devoted chiefly to the prose and poetry of the nineteenth century and includes composition, conversation, history and general view of French literature. Besides a reading and criticism of the best writers, such as: *Causeries du Lundi, Ste. Beuve; On Rend l'Argent, Coppee; Hernani, Hugo; Meditations, Lamartine; Athalie, Racine; L'Avare, Moliere; Mlle. de le Seigliere, Sandeau; Les Origines de la France Contemporaine, Taine; Expedition de Bonaparte en Egypte, Thiere; Ste. Elizabeth de Hongrie, Montalembert; Historie de la Litterature Francaise, Duval.*

[Four hours a week for two semesters.]

N. B.—The works studied are not necessarily the same every year.

## GREEK

## A.

GRAMMAR. Etymology, *Goodell.*

LESSONS FOR BEGINNERS, *Morrison and Goodell.*

EPICTOME OF THE NEW TESTAMENT, Part I, *Stoffel.*

[Five hours a week for two semesters.]

## B.

GRAMMAR. Etymology reviewed and Syntax begun.  
*Goodell.*

XENOPHON. *Anabasis, Four Books, Smith.*

COMPOSITION. Based on the *Anabasis.*

EPICTOME OF THE NEW TESTAMENT, Part II, *Stoffel.*

[Five hours a week for two semesters.]

## C.

GRAMMAR. Completed.

XENOPHON. Selections from Memorabilia.

PROSE COMPOSITION.

HOMER, *Iliad*, Six Books, Seymour.

EPITOME OF THE NEW TESTAMENT, Part III, *Stoffel*.

[Five hours a week for two semesters.]

## GERMAN

## A.

Grammar, *Thomas*, Part I. Translations from German into English of simple prose; translation of English exercises into German. Reading of short stories and selections from more difficult prose.

German Reader, *Thomas and Hervey*.

[Five hours a week for two semesters.]

## B.

Grammar, *Thomas*, Part II. Translation into German of narrative prose and selections from history.

Herman and Dorothea, *Goethe*; Lichtenstein, *Hauff*.

[Five hours a week for two semesters.]

## C.

Grammar, *Thomas*, Parts III and IV. Sight reading of plays, poems and prose writings. Translation of selections from history and literature; original essays.

Minna von Barnhelm, *Lessing*; best known poems, *Heine*; Correspondence, *Schiller-Goethe*.

[Four hours a week for two semesters.]

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## HISTORY

### A.

ANCIENT HISTORY. *Meyers' Ancient History.* The Eastern Nations. The History of Greece and of the Empire of Alexander. The Story of Rome. The Establishment of the Empire, and the rise of Christianity. The Roman-German, or Transition Age.

[Five hours a week for two semesters.]

### B.

MEDIEVAL AND MODERN HISTORY. *Medieval and Modern History* by Myers. The Barbarian Kingdoms. The Church. The Rise of Islam. Holy Roman Empire. Papacy. Crusades. Growth of the Nations. The Renaissance. The Reformation. Spain, France, England. The French Revolution and Napoleonic Wars. European Expansion in the nineteenth century.

[Five hours a week for two semesters.]

### C.

AMERICAN HISTORY. *Students' History of the United States*, by Channing. Pre-Columbian Voyages. Discovery and Exploration. Colonization. Intercolonial Union. War of Independence. The Constitution. Federalist Supremacy. Jeffersonian Republicans. War. Peace. The National Democracy. Slavery. Secession. The Civil War. National Development.

[Five hours a week for one semester.]

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## LATIN

### A.

Essentials of Latin, *Pearson.*

EXERCISES.

[Five hours a week for two semesters.]

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B.

GRAMMAR. Review of Etymology, Syntax, *Pearson*.

CAESAR. Books I-IV.

PROSE COMPOSITION. Based on *Caesar*.

[Five hours a week for two semesters.]

## C.

GRAMMAR. Syntax, *Bennett*.

NEPOS. Selected Lives.

SALLUST. Catiline.

CICERO. Orations I-III, against Catiline.

PROSE COMPOSITION. Based on authors read.

[Five hours a week for two semesters.]

## D.

GRAMMAR. Complete review.

CICERO. Three orations including *Pro Lege Manilia*.

OVID. Metamorphoses.

VERGIL. *Aeneid*, six books. The explanations cover peculiarity of syntax, figures, mythology.

PROSODY. Study of hexameter verse.

PROSE COMPOSITION. Based on *Cicero*.

[Five hours a week for two semesters.]

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MATHEMATICS

## A.

ALGEBRA. This course for beginners in Algebra includes a study of the primary fundamental principles necessary to the courses which follow. The subjects dwelt upon in particular are factoring, highest common factor and least common multiple, which are afterwards applied in their relation to Fractions and the reduction of Complex Frac-

tions. In as far as possible, concrete examples of their applications to kindred scientific subjects are applied by the teacher. Text-book, *First Course in Algebra*, by Hawkes, Luby, Touton.

[Five hours a week for one semester.]

### B.

ALGEBRA. In this course the study of equations is begun and continued through equations of the first degree, fractional equations and systems of simultaneous equations. Involution, evolution, radicals and exponents complete the course, which is supplemented wherever possible with problems of practical application. Text-book, *First Course in Algebra*, by Hawkes, Luby, Touton.

[Five hours a week for one semester.]

### C.

ALGEBRA. This course begins with quadratic equations, pure and affected, followed by systems of simultaneous quadratic equations and those forms of radical equations of higher degree which may be solved by quadratic methods. Ratio and proportion, indeterminate equations, surds, imaginaries, inequalities, the progressions and the binomial theorem finish the work in this course. As in the preceding courses, special stress is placed upon the application of the theory to such examples as will show its application to elementary scientific subjects. Text-book, *First Course in Algebra*, by Hawkes, Luby, Touton.

[Five hours a week for one semester.]

### D.

GEOMETRY. This subject is completed as far as the end of plane geometry and includes a study of the theorems

with proofs of exercises and original propositions. The habit of independent thinking is cultivated to some extent by the solution of special problems of concrete nature intended to exhibit the relation of the process studied to practical examples. Text-book, *Wentworth and Smith*.

[Five hours a week for two semesters.]

### E.

GEOMETRY. The study of solid geometry. Planes, solid angles, polyhedrons, the cylinder, cone and sphere are all studied in detail and the solution of original exercises and propositions of application is made a feature of the course. Text-book, *Wentworth and Smith*.

[Five hours a week for one semester.]

### F.

TRIGONOMETRY. A half year is given to this subject which includes both plane and spherical trigonometry. The work done is the equivalent of that in most of the elementary text-books. Special attention is given to goniometry on account of its application to calculus, and examples of a concrete nature are abundantly supplied. Text-book, *Wentworth*.

[Five hours a week for one semester.]

## SCIENCE

### A.

PHYSICAL GEOGRAPHY. An introductory and elementary study of the earth and its environments. The student will be led into a closer sympathy with the world about him.

The various types of plant and animal life, together with topographical and climatic conditions, will be considered. Text-book, Tarr.

[Five hours a week for one semester.]

### B.

PHYSIOLOGY. Lectures, recitations and demonstrations with the stereopticon. The study of the human skeleton including the physiology and hygiene of the bones. The action, relation, structure and hygiene of muscles. The digestive, circulatory and excretory systems demonstrated by models and charts. The anatomy and structure of the nervous system and simple experiments on the same. Text-book, *Martin's Human Body*.

[Five hours a week for one semester.]

### C.

BOTANY. This course is designed for beginners in this subject; it includes a study of the higher plants with reference to structure of root, stem, leaf, flower and seed. An introduction to the lower forms of plant life and their classification is also given. Text-book, *Bastian's Elements of Botany*.

[Five hours a week for one semester.]

### D.

ZOOLOGY. This course includes an introduction to the subject with studies of representative forms and their classification in the different groups of the animal kingdom. The subject is taught by recitations and laboratory work. Text-book, *Linville and Kelly*.

[Five hours a week for one semester.]

## E.

(a) CHEMISTRY. An introductory course of experimental lectures on familiar subjects such as water, the air and its constituents, common salt, etc., leading up to discussions of the more important elements and their properties, and the fundamental laws and phenomena of chemistry. Text-book, *Clarke and Dennis*.

[Three hours a week for two semesters.]

(b) EXPERIMENTAL CHEMISTRY. A laboratory course to accompany Course (a). A series of exercises to be performed by each student, and having as their main object the cultivation of the student's powers of observation and faculty of inductive reasoning. These exercises comprise a study of the principal metallic elements including their preparation, properties and more familiar compounds. The directions for each experiment are made as brief as possible; the observation of facts and the drawing of correct conclusions therefrom being left, so far as the nature of the experiment will permit, to the student. Laboratory Manual, *Dennis and Clarke*.

[Two hours (four hours actual work) each week for two semesters.]

## F.

PHYSICS. Instruction in elementary physics is given by lectures and recitations in which the general laws of mechanics, heat, acoustics, optics, electricity and magnetism are presented. The course is intended to meet the needs of those who desire a general knowledge of the subject, as well as to lay the foundations for advanced work. Particular attention is paid to the correct statement of principles so that in his advanced work the student will

have nothing to unlearn or relearn. Text-book, *Millikan and Gale*.

[Three hours a week for two semesters.]

LABORATORY WORK of this course consists of a series of experiments which verify and apply practically the fundamental principles of physics. The student also receives instruction in the use and careful handling of apparatus, accurate observation, and correct deduction of results. Neat and concise reports of all experiments are kept by each student and form the basis for the grades in this work. Laboratory Manual, *Millikan and Gale*.

[Two hours (four hours actual work) each week for two semesters.]

THE COMMERCIAL  
HIGH SCHOOL

### THE COMMERCIAL HIGH SCHOOL

The Commercial School is designed to fuse with the ordinary High School or preparatory program of studies, a special preparation for the processes of modern commercial life. Accordingly, the commercial program consists of a selection of the more important subjects in the High School curriculum to which are added the classes and experimental facilities found in a complete and up-to-date commercial college.

Special arrangements will be made for young men who have no High School training, but who may have had practical business or office experience. Such students may follow the courses of this program of studies but will not be considered candidates for degrees. A certificate stating the field covered by their studies will, however, be presented to them.

Graduates of High Schools or equivalent preparatory schools will ordinarily be able to complete the work of this program in *one year*.

**COMMERCIAL PROGRAM****FIRST YEAR**

SUBJECTS First Term	Hrs. a Week	COURSE	SUBJECTS First Term	Hrs. a Week	COURSE
English	5	A	English	5	A
Mathematics	5	A	Mathematics	5	B
History	5	A	History	5	A
*Latin	5	A	Latin	5	A
Science	5	A	Science	5	B

**SECOND YEAR**

English	5	B	English	5	B
Mathematics	5	D	Mathematics	5	D
History	5	B	History	5	B
Latin	5	B	Latin	5	B
Science	5	E	Science	5	E

**THIRD YEAR**

English	5	C	English	5	C
Bookkeeping	5	A	Bookkeeping	5	A
Arithmetic	5	B	Arithmetic	5	B
Mathematics	5	C	Mathematics	5	E
(Penmanship	5	A	(Penmanship	5	A
(Typewriting			(Typewriting		

**FOURTH YEAR**

English	5	D	English	5	D
Bookkeeping	5	B	Bookkeeping	5	B
Com'l Law	5	A	Civil Gov'm't	5	A
Science	5	F	Science	5	F
(Penmanship	5	B	(Penmanship	5	B
(Typewriting			(Typewriting		

\*French or German may replace Latin.

**ARITHMETIC****B.**

Percentage in its application to discounts, loss and gain, commission and interest (reviewed). Partial payments, equation of accounts, savings bank accounts, stocks and bonds, insurance, compound interest, partnership.

Frequent drills in rapid calculation and short methods.

[Five hours a week for one year.]

**BOOKKEEPING****A.**

Preparatory instruction and definitions. Initiatory sets of Double Entry. Retailing by Double Entry. Special practice in writing business papers and business forms. Single Entry. Changing Single to Double Entry.

[Five hours a week for one year.]

**B.**

Retailing. Wholesaling. Shipping and Commission. Jobbing. Manufacturing. Installment and state agencies. Joint stock companies. Banking.

Business Practice and Office Work.

[Five hours a week for one year.]

**COMMERCIAL LAW****A.**

Text-book, *Huffcut's Elements of Business Laws*.

[Five hours a week for one-half year.]

**PENMANSHIP**

The Palmer Method of Business Penmanship.

[Two hours a week for two years.]

**TYPEWRITING****A.**

Special exercises in touch typewriting. The student makes copies of different kinds of correspondence and legal forms.

[Three hours a week for one year.]

**B.**

SPEED CLASS. Tabulating, manifolding, machine dictation and work for the Faculty.

[Three hours a week for one year.]

**PHONOGRAPHY—(Optional)****A.**

Isaac Pitman's Short Course in Phonography.

**B.**

SPEED CLASS.

**GRAMMAR SCHOOL WORK**

In addition to the College Courses and to the High School Courses, Columbia conducts a Junior Preparatory Department in which all the branches of a Grammar School are taught, the students having every opportunity of preparing themselves as rapidly as possible for High School work.

# **LIST OF STUDENTS**

**MATRICULATION DURING THE SCHOLASTIC  
YEAR FROM SEPTEMBER, 1912, TO  
JUNE, 1913**

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Allehoff, Fred .....	Oregon
Andrews, Edmond .....	Oregon
Ayres, Garl .....	Oregon
Bernard, Charles .....	Oregon
Bobb, August .....	Wisconsin
Berry, Hubert .....	Oregon
Bacon, Stanley .....	Oregon
Beals, Clyde .....	Oregon
Brooke, James .....	Oregon
Brogan, Philip .....	Oregon
Bilodeau, Harold .....	British Columbia
Bernhofer, John .....	Alaska
Cook, Herman .....	Oregon
Chaperon, William .....	Oregon
Collins, Vincent .....	Oregon
Collins, Robert .....	Oregon
Colenaty, Charles .....	Washington
Cannon, Arnold .....	Idaho
Call, Walter .....	California
Carroll, Terence .....	Oregon
Carmody, Albert .....	Oregon
Curran, Michael .....	Idaho
Curran, Martin .....	Idaho
Court, James .....	Oregon
Clancy, Richard .....	Oregon
Cunningham, Charles .....	Oregon
Cummerford, Edward .....	British Columbia
Douglas, Emmett .....	Oregon
Daniel, Henry .....	Oregon
Driscoll, John .....	Oregon
Day, Pinkerton .....	Oregon
Duffy, Maurice .....	Washington
Delahunt, Raymond .....	Oregon
Delany, Henry .....	Montana
Daly, Eldon .....	Alaska
Dorney, Francis .....	Oregon
Duke, Wilson .....	Oregon
Dunlevy, Marvin .....	British Columbia
Erskine, Thomas .....	Oregon
Erskine, John .....	Oregon

Fox, Jay .....	Oregon
Felger, Benjamin .....	Oregon
Gray, Wesley .....	Oregon
Goreczky, Oscar .....	Idaho
Garrett, Geary .....	Oregon
Goddard, Eldridge .....	Oregon
Gallaher, Joseph .....	Washington
Hornby, George .....	Oregon
Hiler, Ivan .....	Idaho
Hull, Carrol .....	Idaho
Hickox, Fred .....	Idaho
Heywood, Herbert .....	Idaho
Hanson, Don .....	Oregon
Hayes, Ralph .....	Idaho
Johnston, Perry .....	Oregon
Jacobberger, Bertrand .....	Oregon
Jacobberger, Francis .....	Oregon
Jacobberger, Hubert .....	Oregon
Jacobberger, Vincent .....	Oregon
Johnson, Raymond .....	Oregon
Kiernan, Frank .....	Oregon
Kurtz, Townsend .....	Oregon
Knapp, Louis .....	Oregon
Knapp, Orris .....	Oregon
Kelly, Vergil .....	Oregon
Kelly, Vincent .....	Oregon
Kirkland, Frank .....	Oregon
Kane, John .....	Idaho
Keating, James .....	Oregon
Kendall, Henry .....	Massachusetts
Larson, Carol .....	Idaho
Larson, Leonard .....	Idaho
Larsen, John .....	Washington
Leonard, Raymond .....	Oregon
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Young, Armine .....	Oregon

# **ANNUAL COMMENCEMENT**

**DIPLOMAS, PRIZE MEDALS**

**DIPLOMAS AND CERTIFICATES**

English Diplomas in the High School Department were awarded to—

John T. Driscoll.....Portland, Ore.  
Frederick A. Allehoff.....Portland, Ore.

Scientific Diplomas in the High School Department were awarded to—

Avery L. Lasswell.....Portland, Ore.

Engineering Diplomas in the High School Department were awarded to—

William P. Chaperon.....Portland, Ore.  
Francis E. Wascher.....Portland, Ore.  
John J. Larsen.....Kalama, Wash.

Law Diplomas in the High School Department were awarded to—

Clifford J. Thomas.....Portland, Ore.  
James A. Lake.....The Dalles, Ore.  
Leo J. Malarkey.....Warrenton, Ore.

Diplomas in the General High School Department were awarded to—

Herbert J. Heywood.....Portland, Ore.  
Oscar J. Goreczky.....Boise, Idaho  
Sterling B. Spellman.....Seattle, Wash.

Commercial Certificates in the High School Department were awarded to—

Francis M. Kirkland.....Independence, Ore.  
John B. Bernhofer.....Skagway, Alaska  
Abraham J. Parent.....Coeur d'Alene, Idaho  
Peter Shevlin.....Donegal, Ireland  
Michael J. Curran .....Boise, Idaho  
Francis J. Dorney.....Portland, Ore.

**PRIZE MEDALS.**

The Daly Gold Medal, presented by the Reverend William A. Daly, for the student having the best record in English Essay Writing, was awarded to—

Leo J. Malarkey.....Warrenton, Ore.

The Christie Gold Medal, presented by the Most Reverend Alexander Christie, D.D., for the student having the best record in one of the regular courses in the High School Department, was awarded to—

John T. Driscoll.....Portland, Ore.

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## **PREPARATORY LAW ANNOUNCEMENT**

In addition to the Preparatory Courses scheduled on pages 54 and 74, the High School Department offers a specially selected program of studies, leading to a High School Diploma in Law. While this course specifically fits a student for legal training, it is broad enough to impart general culture and to admit of his taking other college courses if desired.







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IT is desired that every Graduate receive a copy of the Catalogue. The faculty will therefore consider it a favor to be notified in case an Alumnus changes his address. On application to the President, Catalogues will be sent to all who are interested in the work of the University